NOTES UNLESS OTHERWISE SPECIFIED

REV.	BRIEF DESCRIPTION OF CHANGE	ECO	DATE	BY	APPR.
A	REL TO PROD	29829	7/6/92		JE
B	DRAWING CORRECTIONS	30882	1/23/03	TLM	JAK

A1
CONTROL PCB ASSY
0446-9500

(REF CABLE 0447-0890)

SMPS "A"

J4
1 INHIBIT A
2 OVERLOAD A
3 OVERTEMP A
5 VOLTS PROGRM A
6 OVERVOLTAGE A
7 VOLTS PEAK HOLD A
8 VOLTS MONITOR A
9 +15V A
15 GND A

SMPS "B"

J3
1 INHIBIT B
2 OVERLOAD B
3 OVERTEMP B
5 VOLTS PROGRM B
6 OVERVOLTAGE B
7 VOLTS PEAK HOLD B
8 VOLTS MONITOR B
9 +15V B
15 GND B

(REF CABLE 0447-0920)

REMOTE CONTROL BOX (SEE ZONE 1-2 / D)

J2
1 POWER OFF
2 COMPUTER / REMOTE
3 LAMP IN-BANK
4 SINGLE SHOT
5 EXT Q-SWITCH
6 SINGLE SHOT / LAMP ENABLE
7 Q-SWITCH FIRE
8 LONG PULSE
9 VAR REP RATE
10 FIXED HZ
11 EXT LAMP ENABLE
12 PFN SET CW
13 PFN SET CT
14 PFN SET CCW
15 REP RATE CCW
16 REP RATE CT
17 Q-SW ADV SYNC CW
18 Q-SW ADV SYNC CT
19 Q-SW DELAY CW
20 POWER ON
21 MODE FAULT
22 OFF LITE
23 ON LITE
24 SIMMER OSC
25 LAMP INHIBIT
26 SOURCE FAULT
28 +5V
29 GND 1
30 INTERLOCK C
31 INTERLOCK D
32 S GND
36 +15V
37 Q-SW DELAY CT

(REF CABLE 0004-2113)

A5
REMOTE CONTROL PCB
ASSY 0447-1840

J10
(REF CABLE 0447-1850)
J2

REMOTE CONTROL BOX

CIM OPTION

UNIVERSAL INTERFACE BOARD
0431-3260

J1

DIG 40		J1 9
PORT 4 (OUTPUT)	41	9 ON / OFF
	42	10 EXT LAMP FIRE ENABLE
	43	11 VAR REP RATE ENABLE
PORT 5 (OUTPUT)	50	12 FIXED HZ. ENABLE
	51	13 Q-SW FIRE ENABLE
	52	14 LONG PULSE ENABLE
	53	15 EXT Q-SW FIRE ENABLE
PORT 6 (OUTPUT)	60	16 SINGLE SHOT / REP ENABLE
	61	42 SINGLE SHOT
	62	41 ANALOG STROBE
	63	40 LAMP BLANK (INHIBIT)
PORT 7 (OUTPUT)	*10	39 LAMP TRIGGER
	*11	38 COMPUTER INTERLOCK CLOCK
	*12	37 COMPUTER INTERLOCK ENABLE
	*13	36 NOT USED
		35 NOT USED
ADC	A-IN-1	18 PFN MONITOR
	A-IN-2	19 SIMMER MONITOR
	A-IN-3	20 INTERLOCK MONITOR
	A-IN-4	21 COMPUTER INTERLOCK MONITOR
	A-IN-5	33 (NOT USED)
	A-IN-6	32 (NOT USED)
	A-IN-7	31 (NOT USED)
	A-IN-8	30 (NOT USED)
DAC 1	A-OUT-1	17 Q-SWITCH DELAY
DAC 2	A-OUT-2	34 PFN VOLTAGE SET
+12V		5,46
-12V		7,44
+5V		1,2,49,50
		3,4,6,8,43,45,47,48
VOLTAGE REFERENCE +5.12V		25,26
2.7Ω R		24,27

(REF CABLE 0437-7970)
J5
RS-232 C INTERFACE

J6
IEEE-488 INTERFACE

(REF CABLE 0437-7980)

J2 / J15

P23	18	18
P22	19	19
P21	9	9
P20	8	8
PROG	10	10
CS2	1	1

UIB I/O EXPANDER
P23 P22 P21 P20 PROG CS2
/8 DAC 3 X2 REP RATE SET
/8 DAC 4 X2 Q-SW ADV SYNC

(J1 TO J1 CABLE REF 0437-7870)
(J2 TO J15 CABLE REF 0437-7880)

REF. "REMOTE CONTROL" SH 1 ZONES 4-2 / D

REMOTE CONTROL DUMMY PLUG
(ASSY 0447-4590)
2 20 30 31 36

- POS 2, 20 & 36 ARE CONNECTED TOGETHER
- POS 30 & 31 ARE CONNECTED TOGETHER
- ALL OTHER POSITIONS ARE NOT CONNECTED OR DEPICTED

J13 DI LOW LEVEL
(REF CABLE 0447-0900)

J16 WA-1 HEAT EXCHANGER OPTION
(REF CABLE 0447-4310)

J7 Q-SW TRIG
J8 LAMP TRIG
J9 ANALOG STROBE
BNC INPUTS

J11 Q-SW SYNC
J10 LAMP SYNC
J12 Q-SW ADV SYNC
BNC OUTPUTS

OR

J5
MARX TRIG
RTN
(CONT. SH 2)

J26

J26		J6
26	PFN MONITOR +	26
25	PFN MONITOR -	25
24	SIMMER SENSE +	24
23	SIMMER SENSE -	23
20	ON DELAYED +	20
19	ON DELAYED -	19
18	ON NON-DELAYED +	18
17	ON NON-DELAYED -	17
16	SCR TRIG -	16
15	SCR TRIG +	15
11	6.3 VAC	11
10	6.3 VAC	10
9	INTERLOCK B	9
7	PER 22	7
6	INTERLOCK A	6
5	MARK RELAY -	5
4	MARK RELAY +	4
3	PER 21	3
2	PER 20	2
1	PER +5V	1

POWER PCB
(CONT. SH 2)

J14

J14		
6	+15V	6
5	GND	5
4	-15V	4
3	GND	3
2	+5V	2
1	GND	1

LVPS
(CONT. SH 2)

QTY	ITEM	PART NUMBER	DESCRIPTION

	NAME	DATE
DFTS.	LAWRENCE	7/14/92
CHK		
ENG.	LAWRENCE	9-14-92
MFG.		

Spectra-Physics SAN JOSE CA 95134
CONFIDENTIAL SPECTRA PHYSICS PROPRIETARY
TOLERANCES, UNLESS SPECIFIED: X ± mm: ± .XX ± ANGLES: △ .XXX ± SURF. FIN: ✓
GENERAL TOLERANCES PER S-P DOCUMENT NO. C-3124

MODEL	NEXT ASSY.
T1	
FINISH:	

SYSTEMS DIAGRAM, POWER SUPPLY

SCALE	SIZE	DRAWING NUMBER	SHEET	REV.
	D	0447-4260	1 OF 2	B